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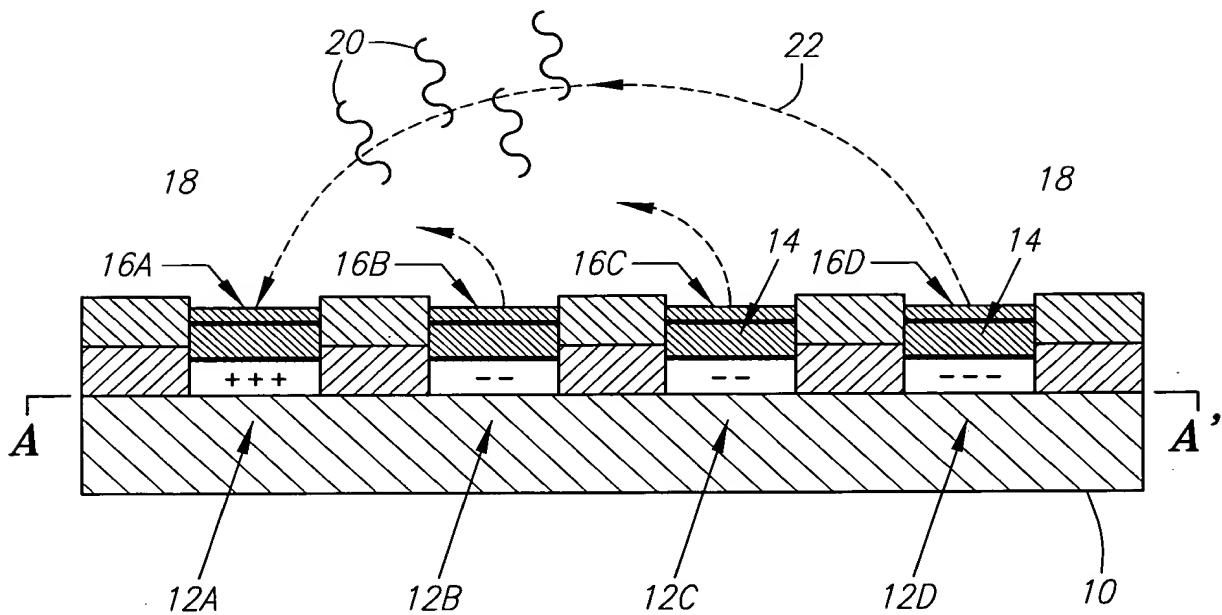


FIG. 1A

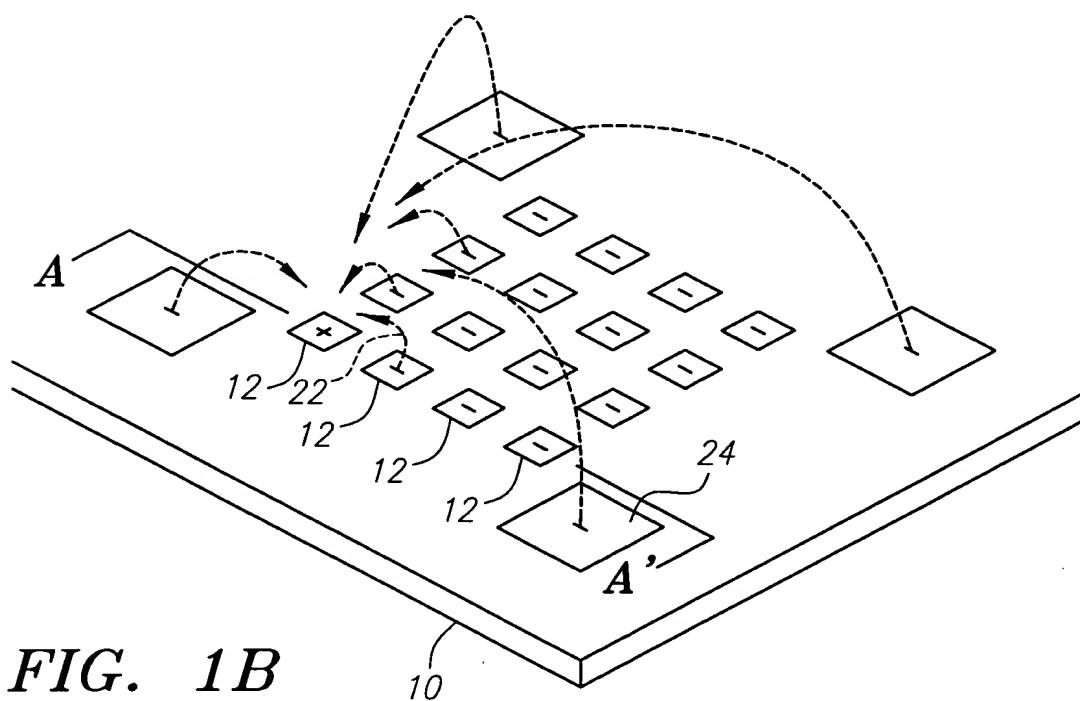
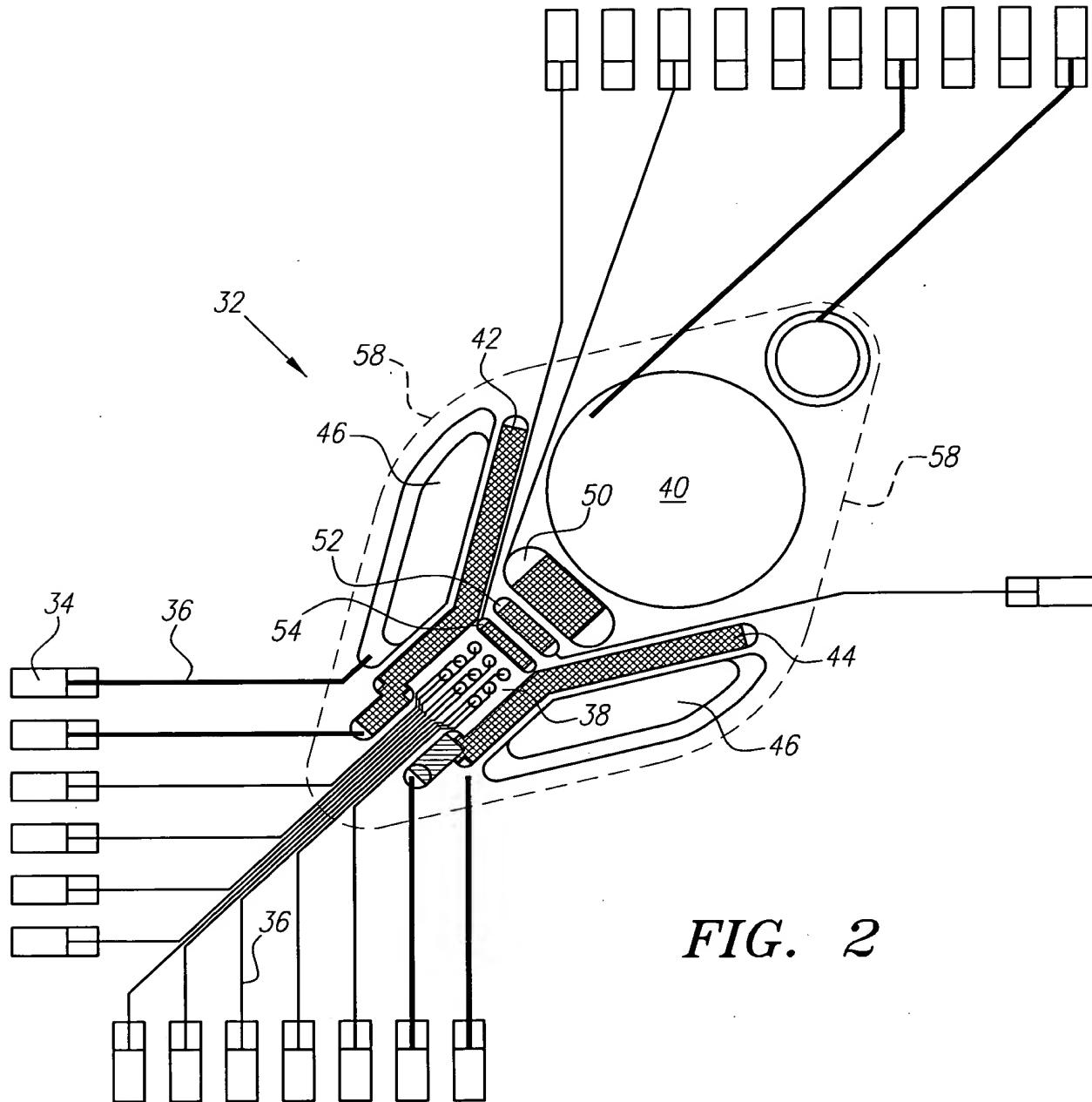


FIG. 1B

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00000000000000000000000000000000

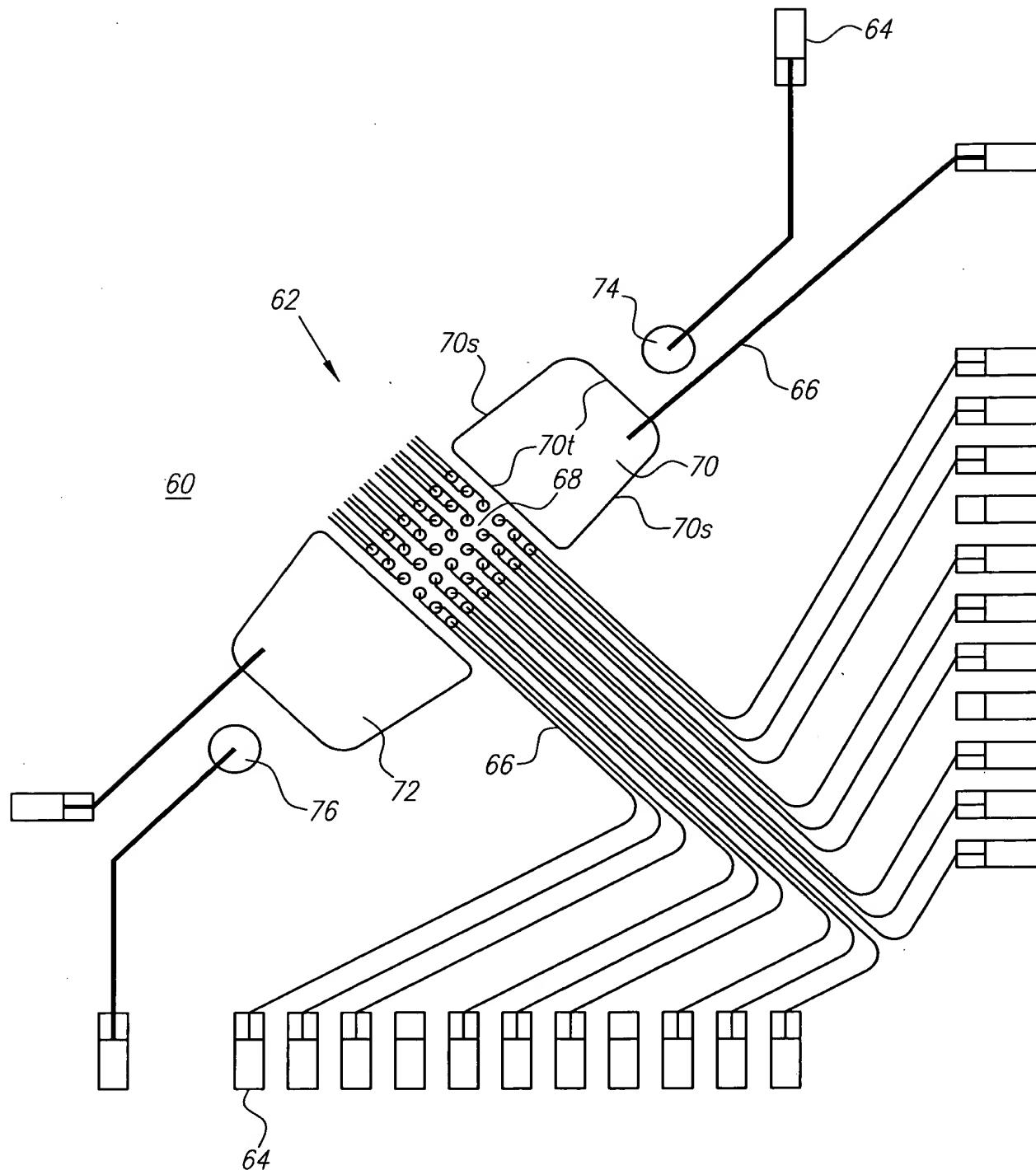


FIG. 3

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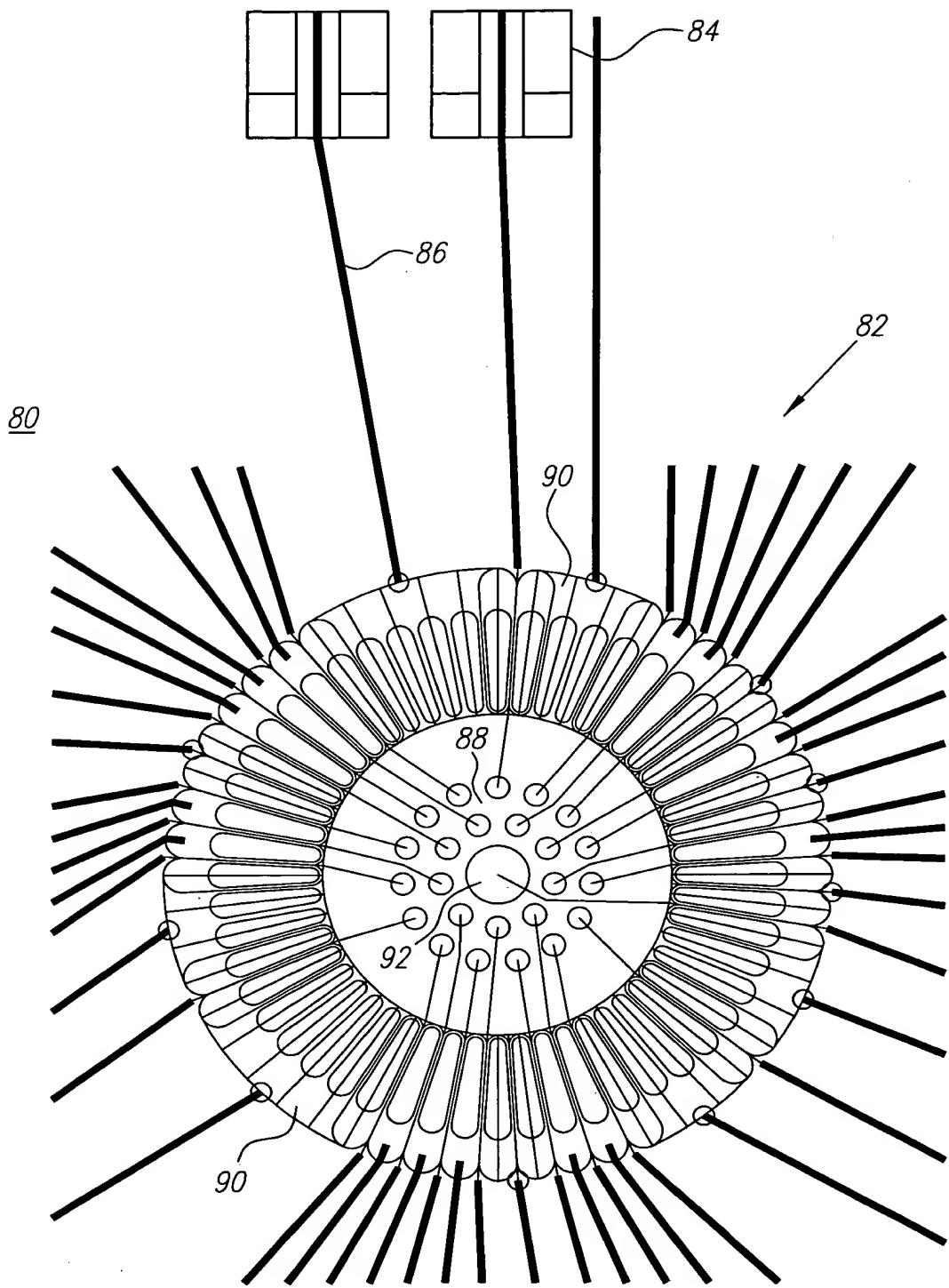


FIG. 4

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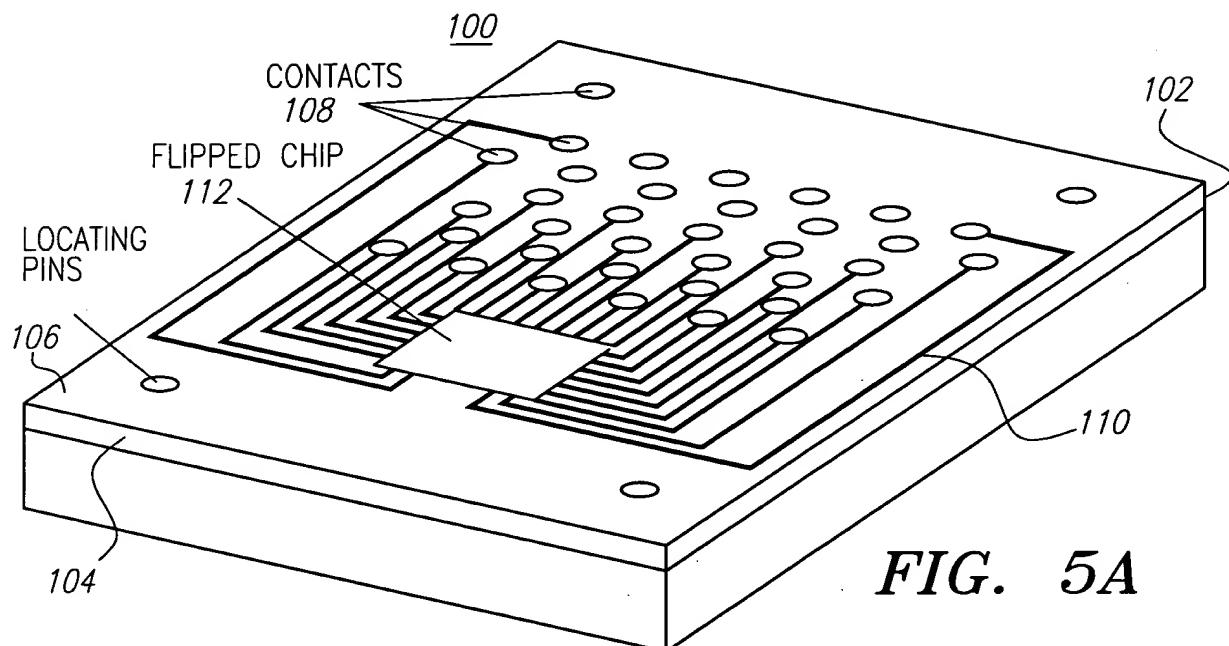


FIG. 5A

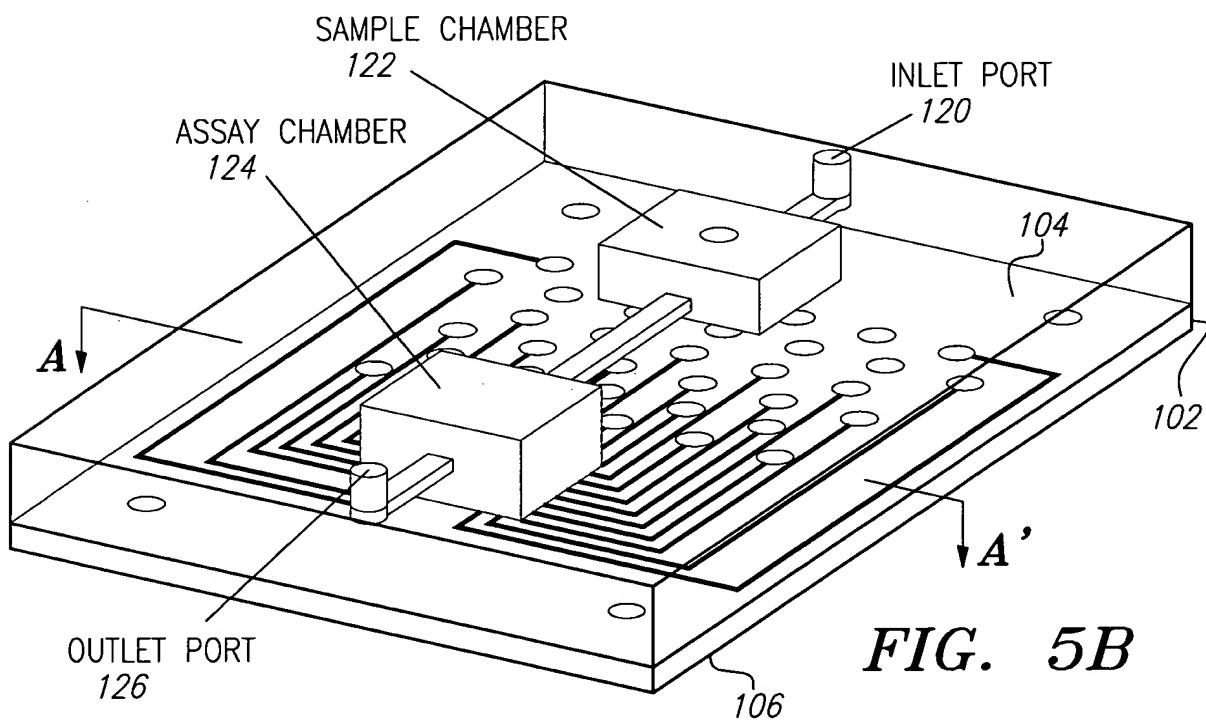


FIG. 5B

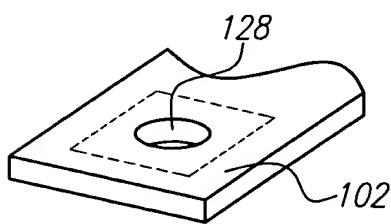


FIG. 5C

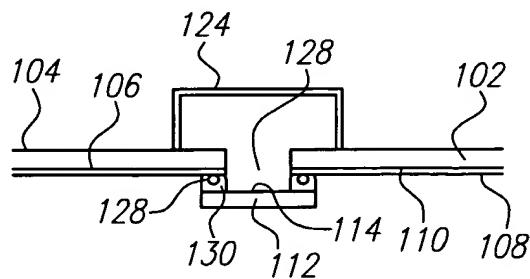


FIG. 5D

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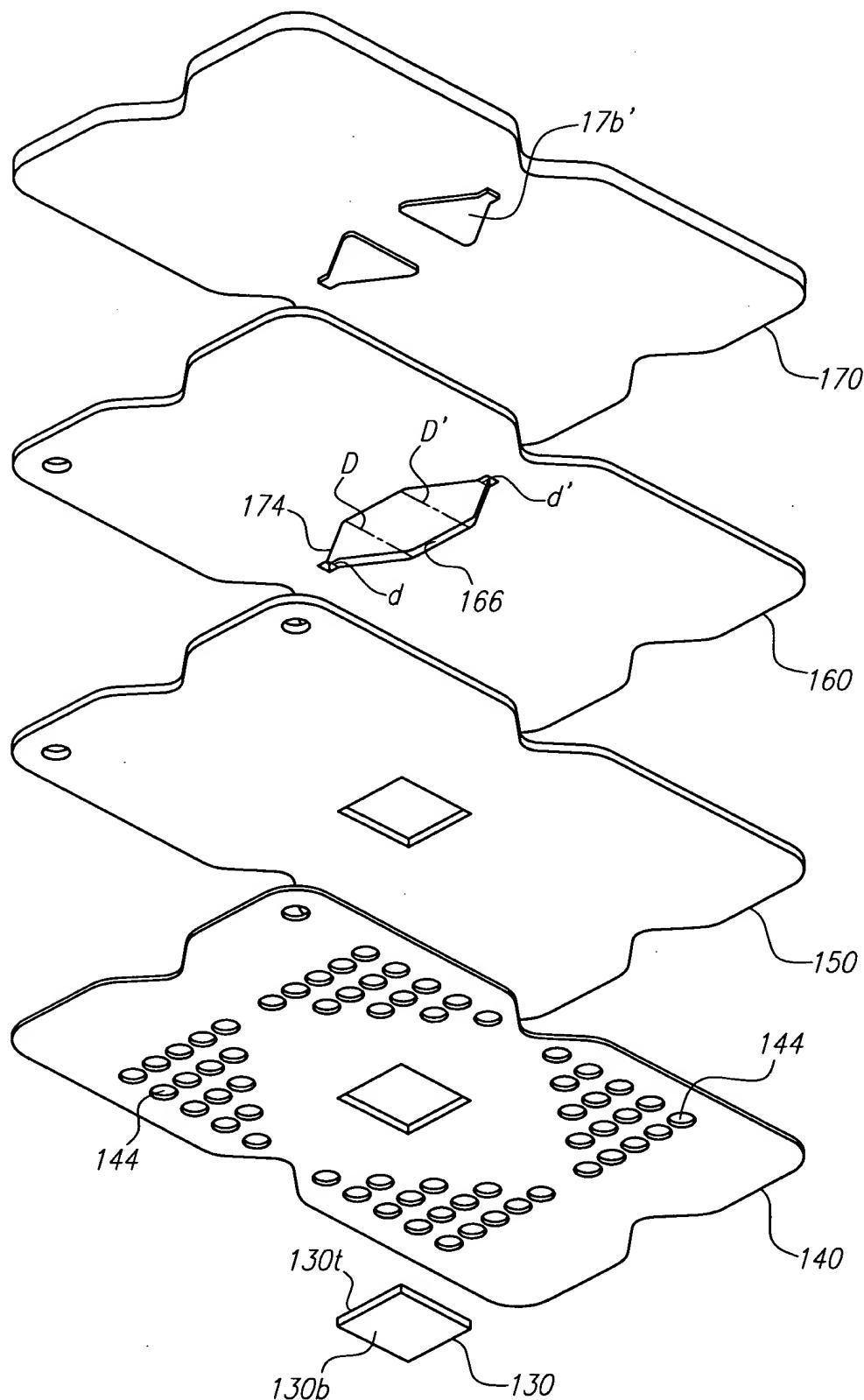


FIG. 6A

SYSTEMS AND METHODS FOR
THE ACTIVE ELECTRONIC CONTROL OF BIOLOGICAL REACTIONS
INV.: D. ACKLEY, ET AL.
DKT: 264/036

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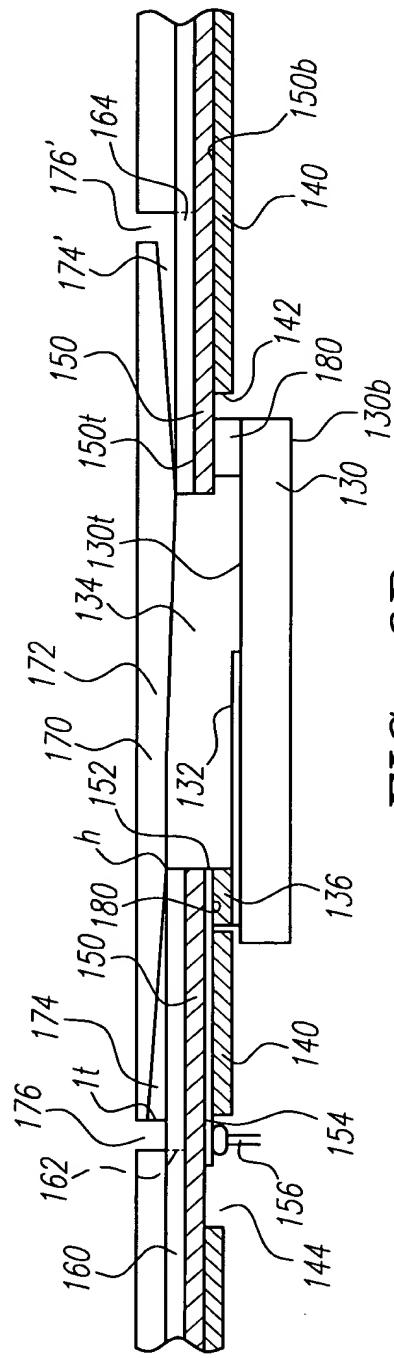
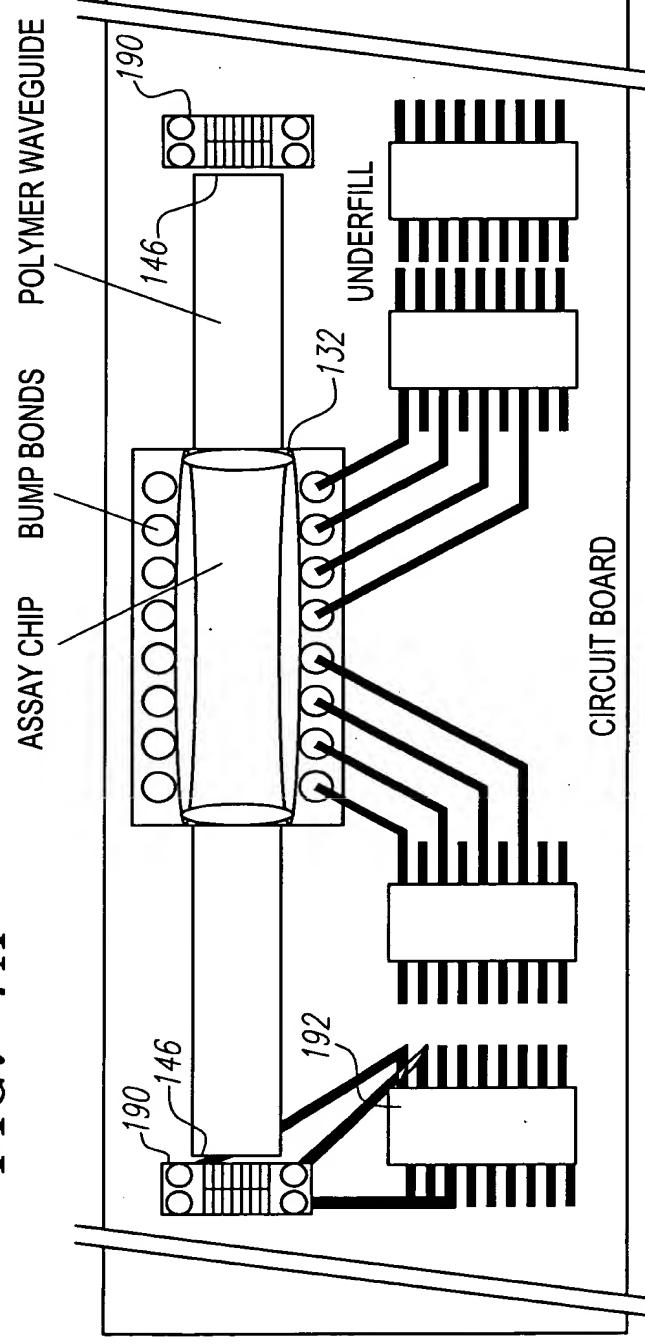
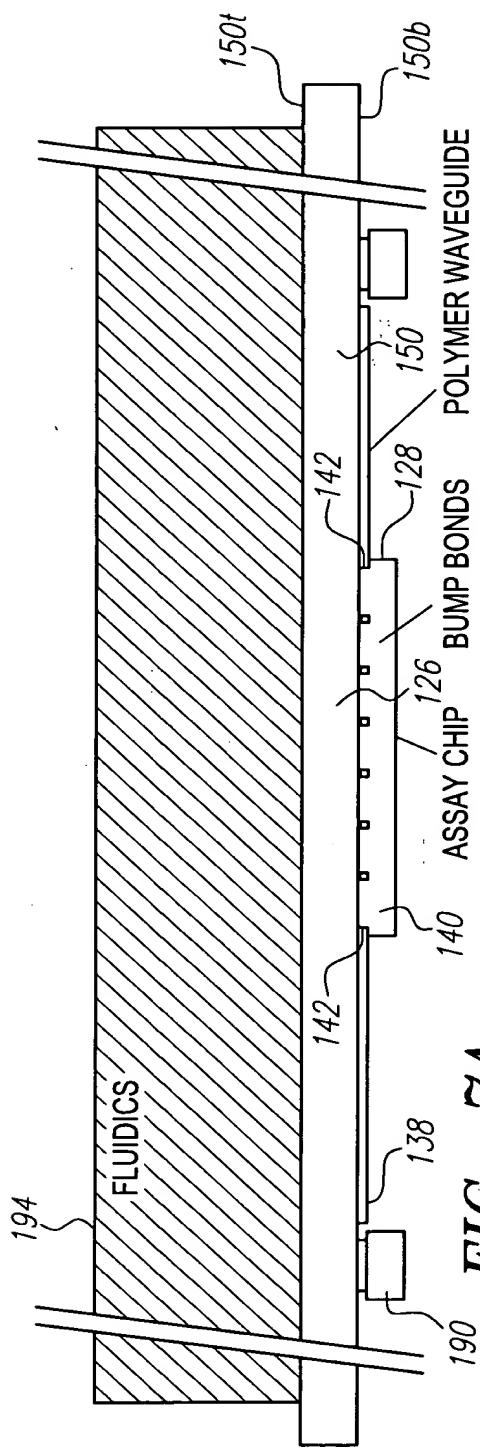


FIG. 6B

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SYSTEMS AND METHODS FOR
ACTIVE ELECTRONIC CONTROL OF BIOLOGICAL REACTORS
INV.: D. ACKLEY, ET AL.
DKT: 264/036

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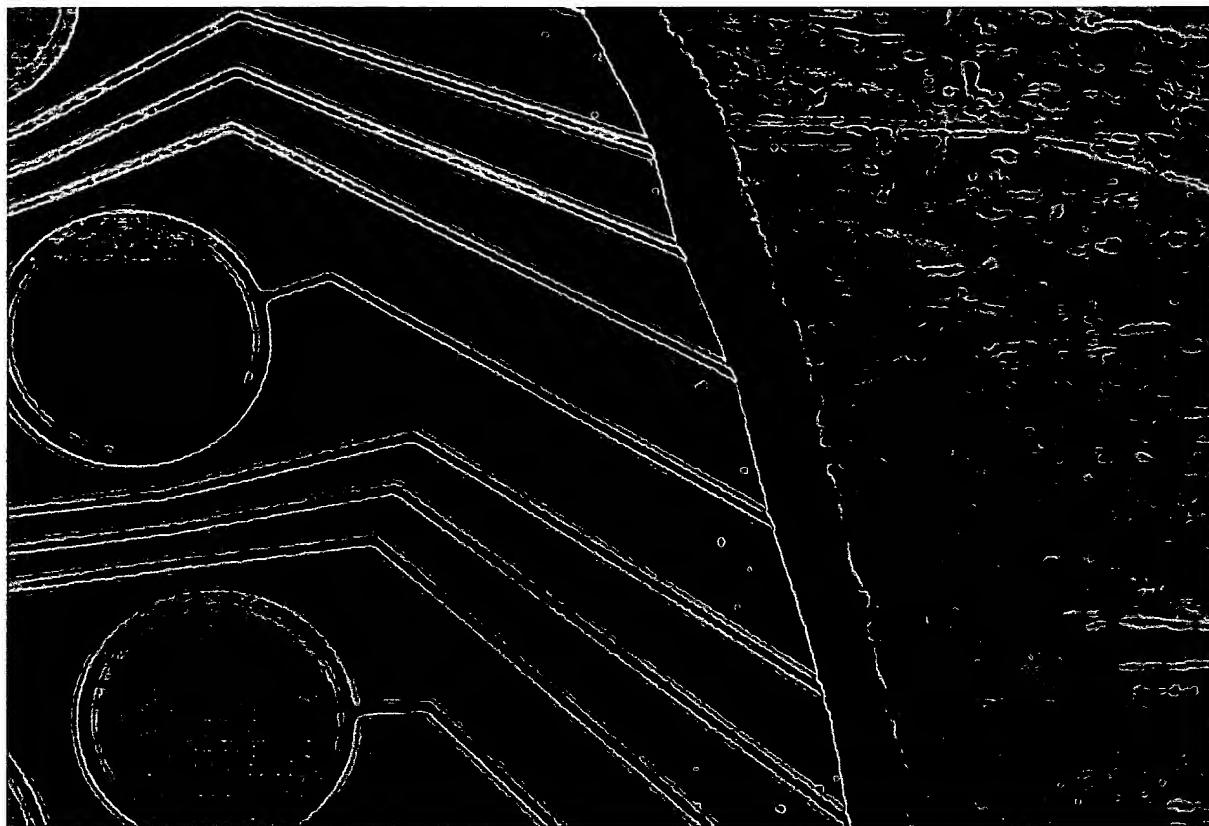


FIG. 8

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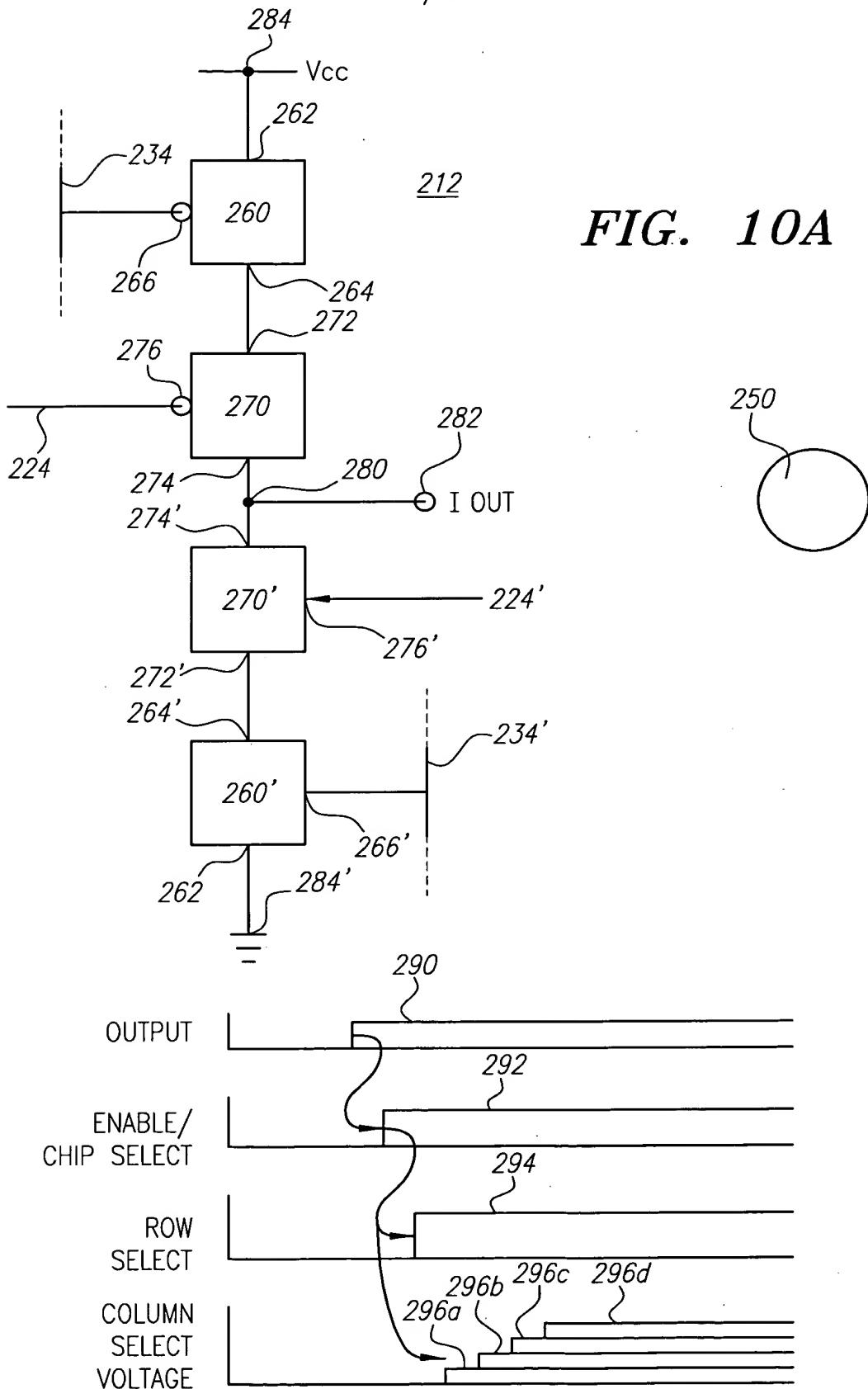
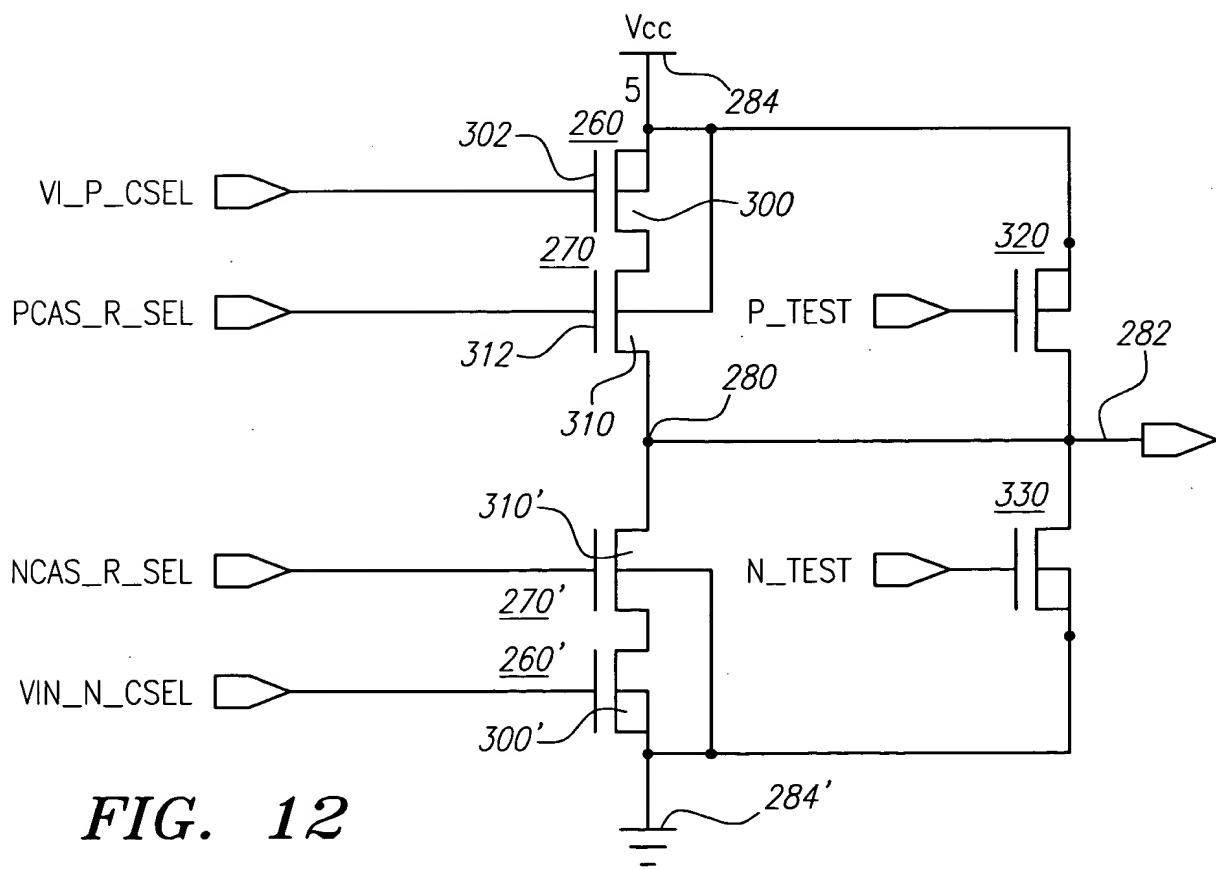
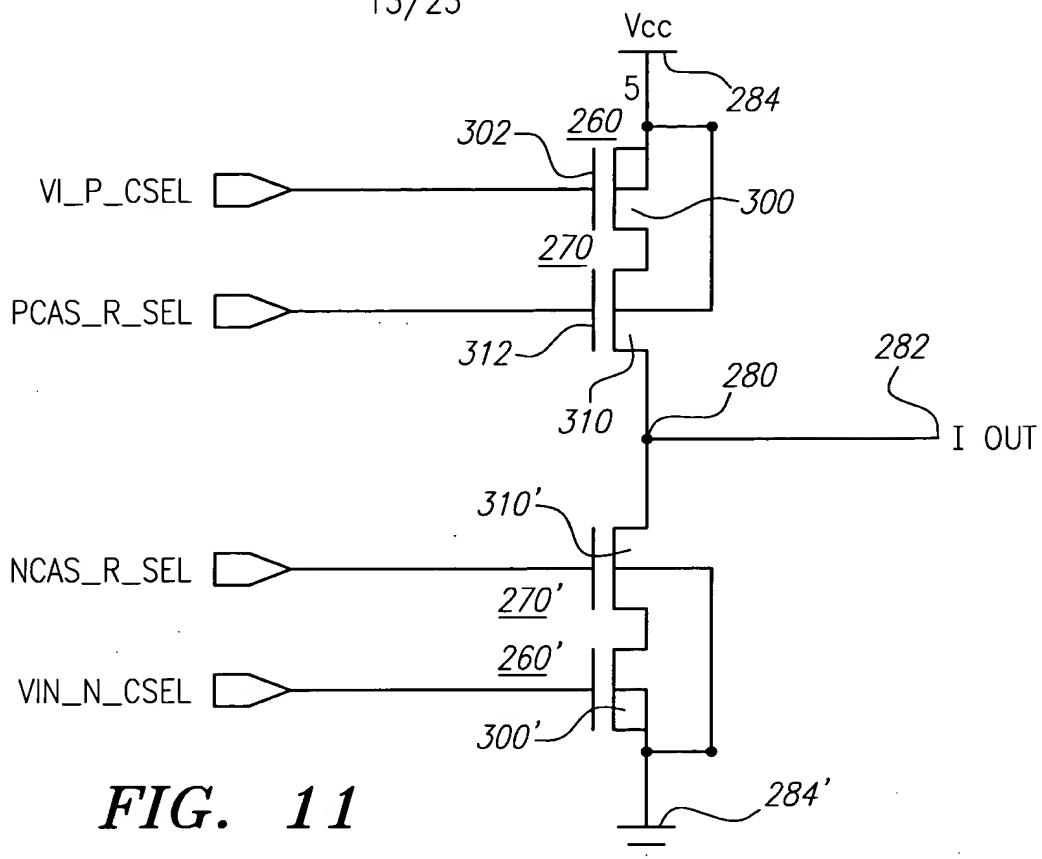
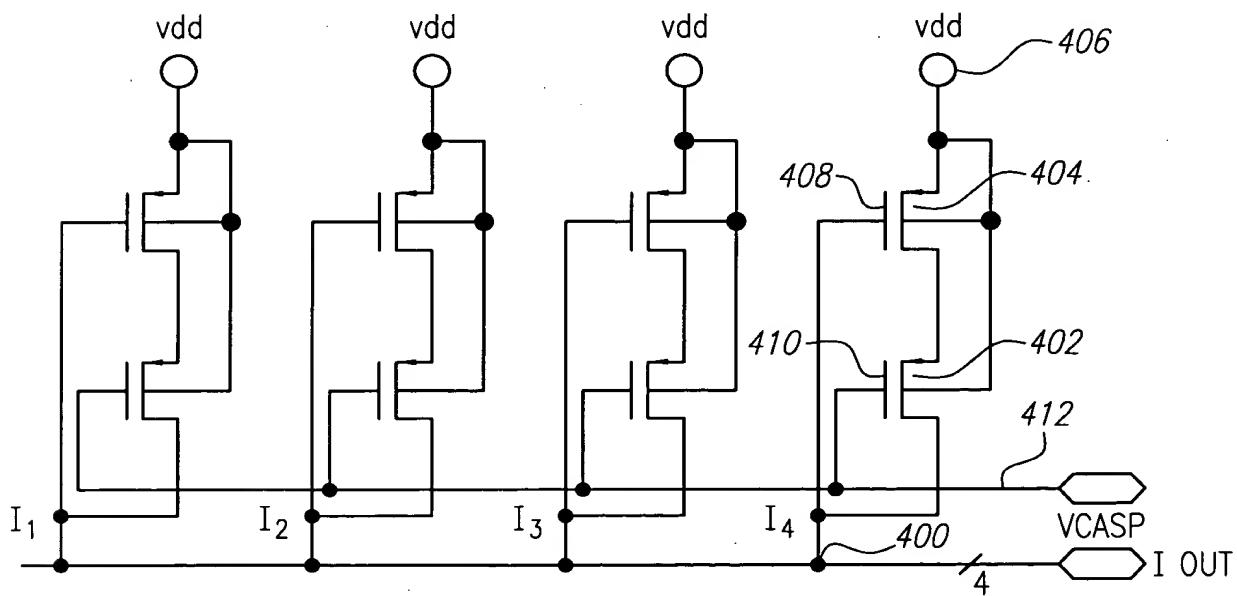
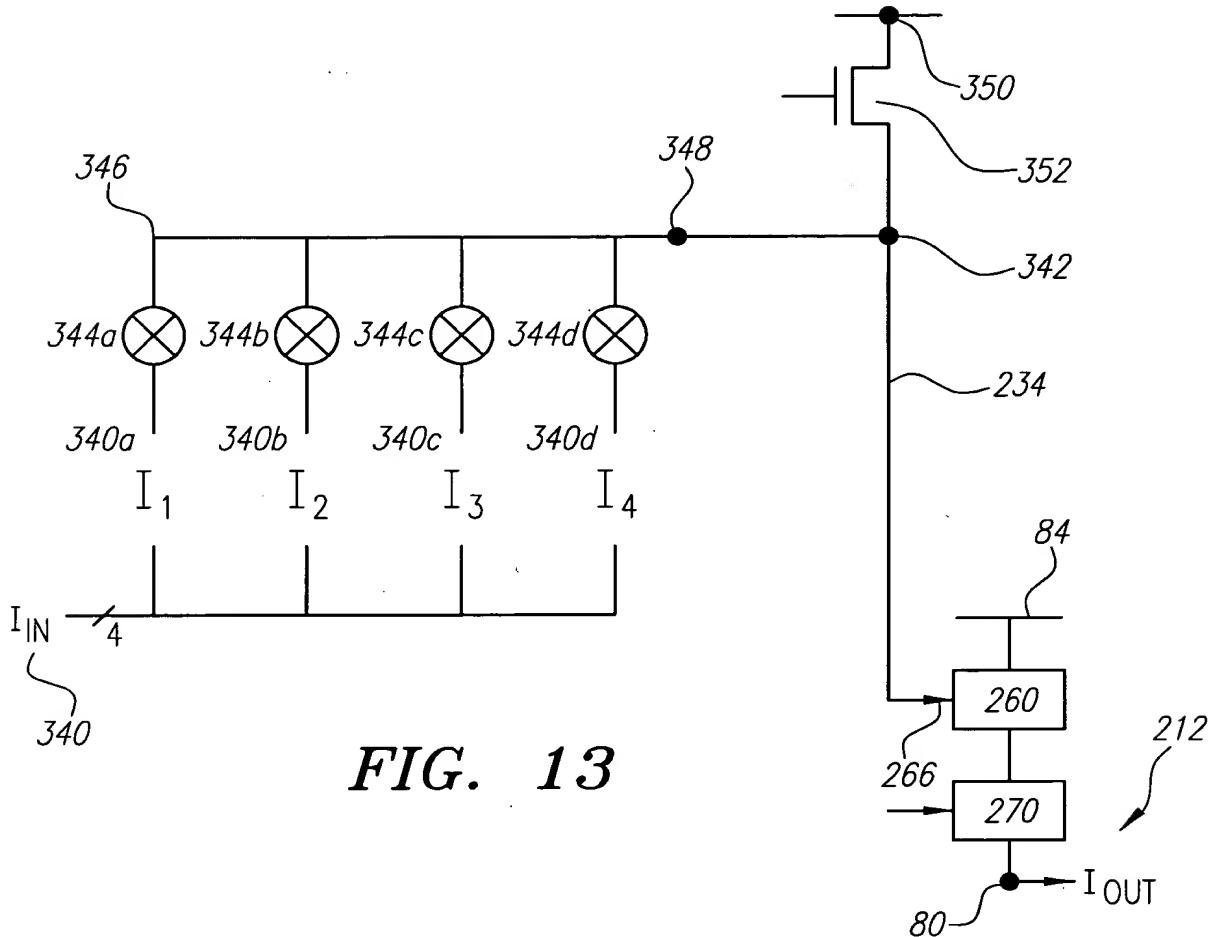


FIG. 10B

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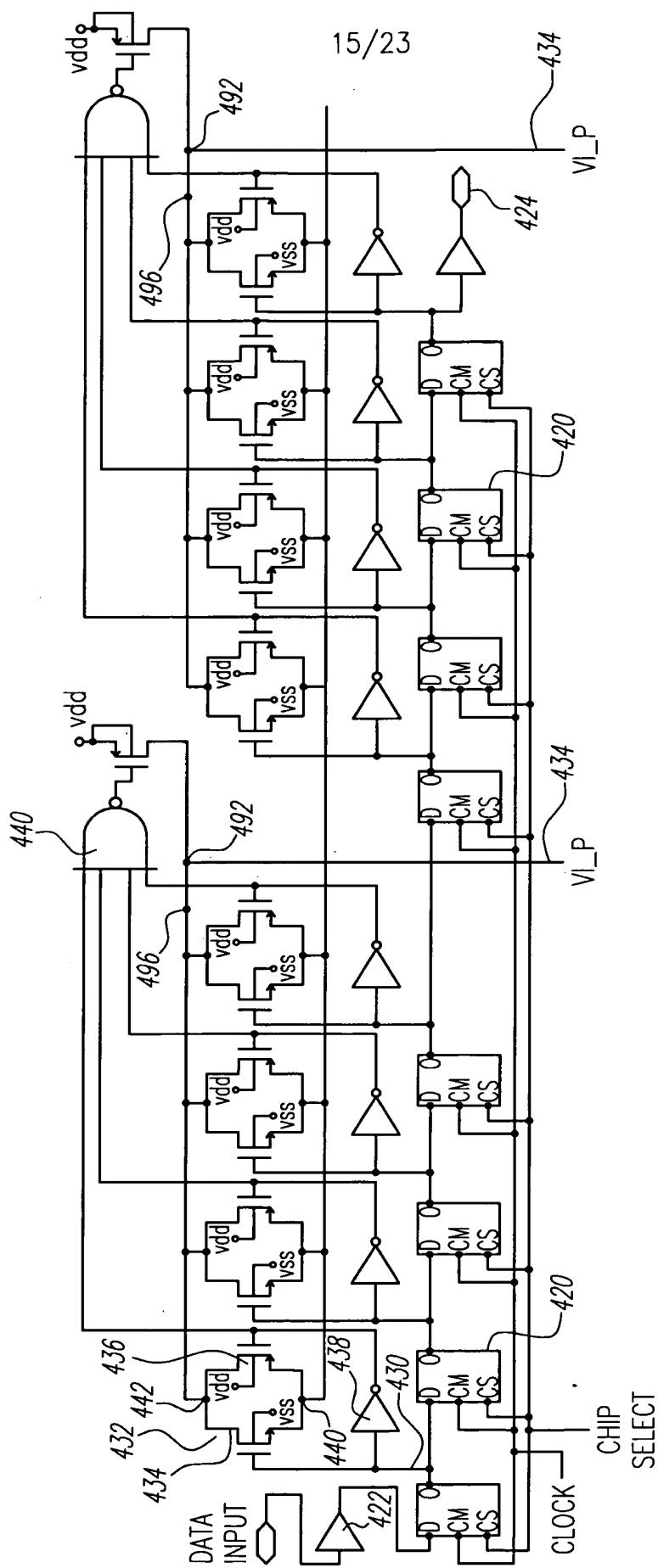


FIG. 15

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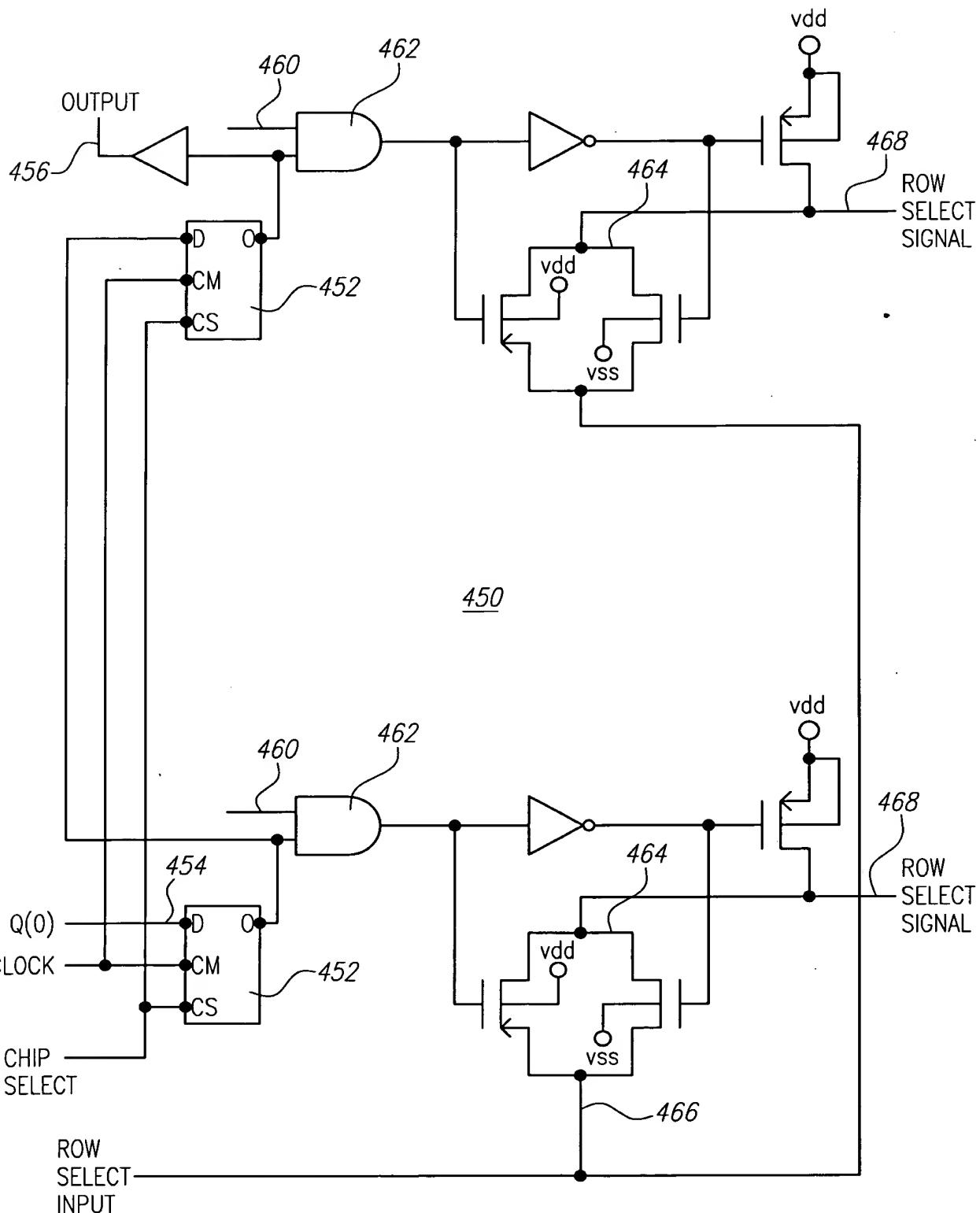


FIG. 16

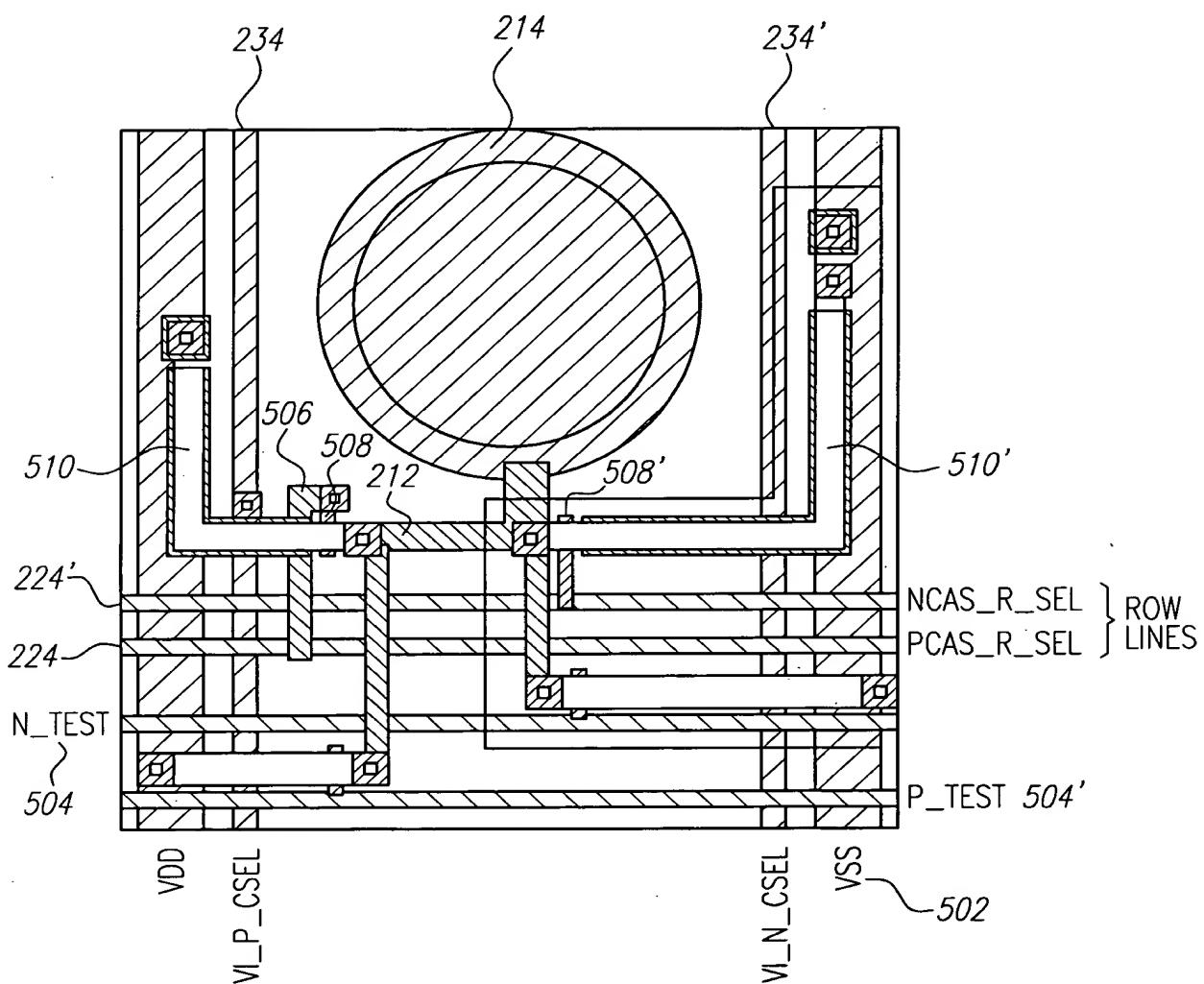


FIG. 17

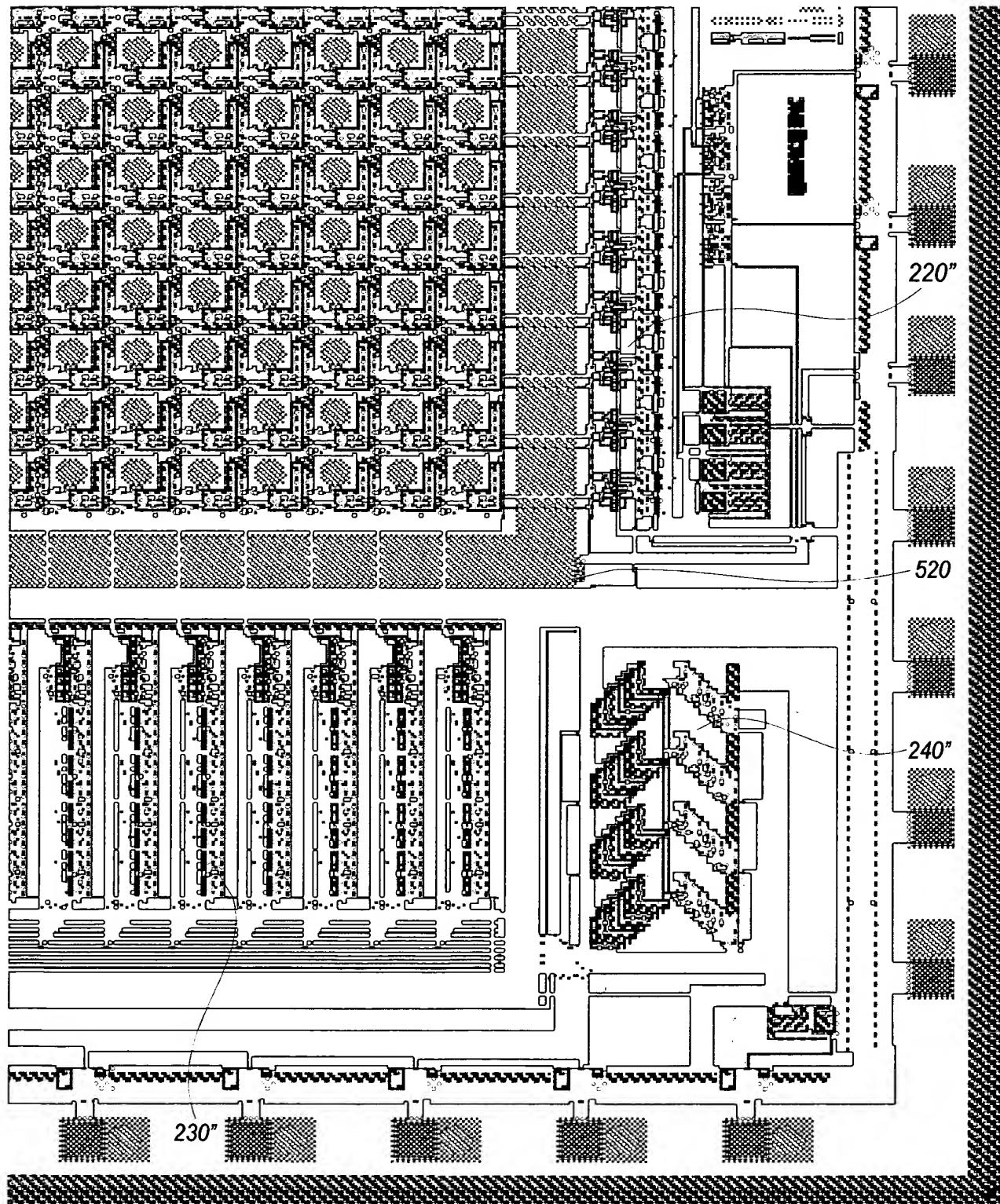


FIG. 18

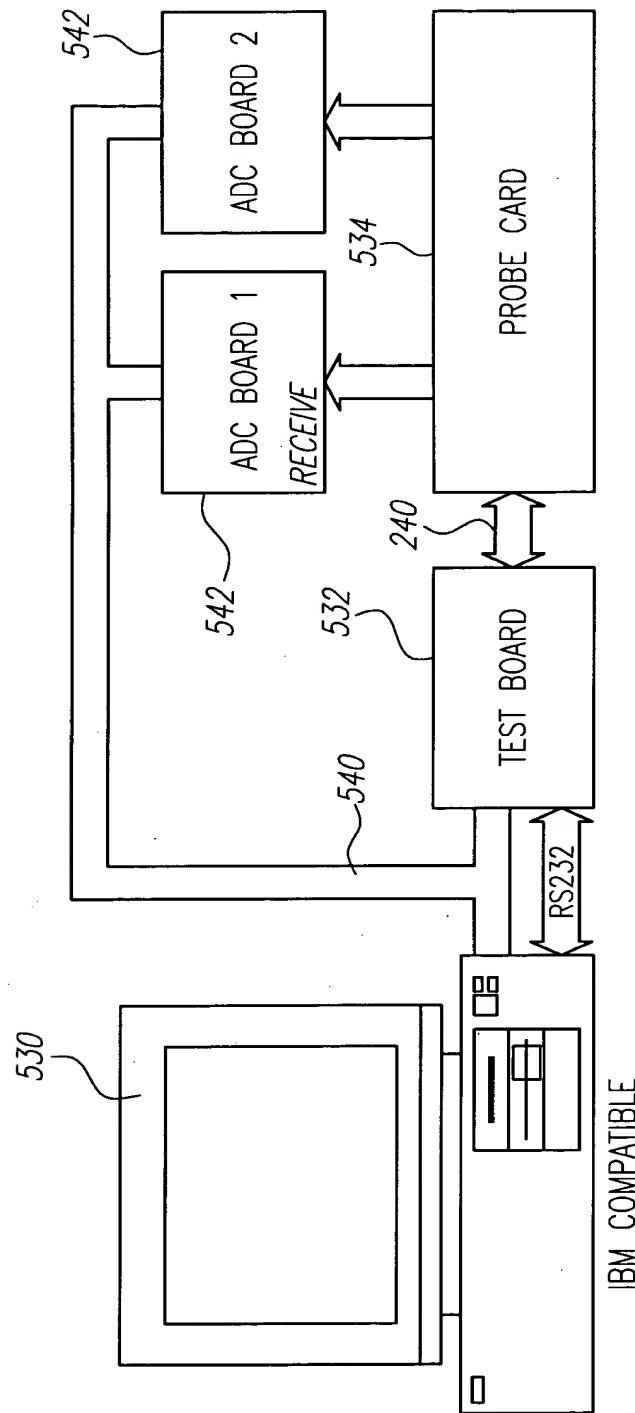


FIG. 19

FIGURE 20

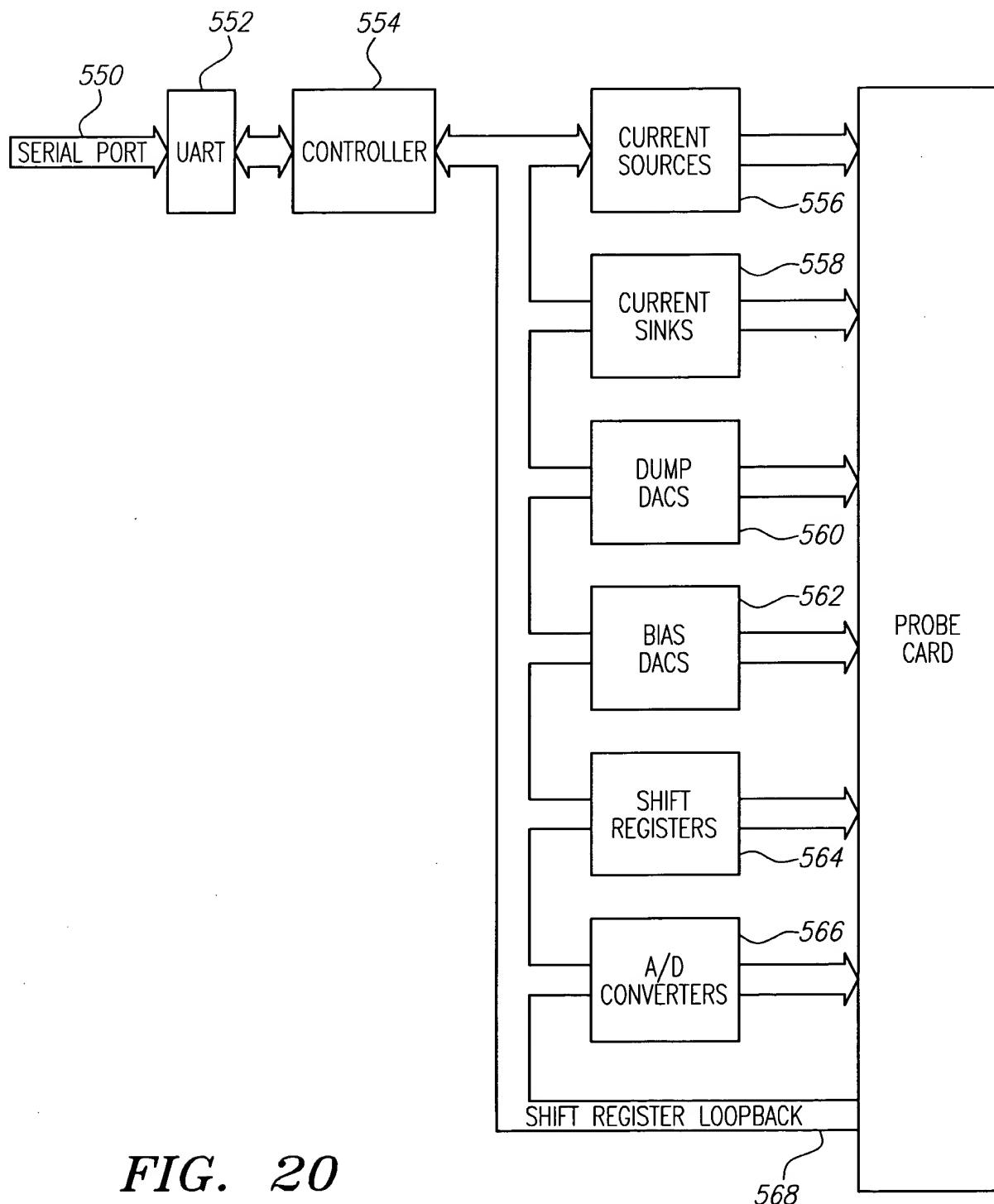


FIG. 20

ELECTRONIC HYBRIDIZATION: Q CHIP
(ATA5/ATA7-BIOTIN, 10pM RCA5-BTR)
CONTROLLER 3, 10s INTEGRATION

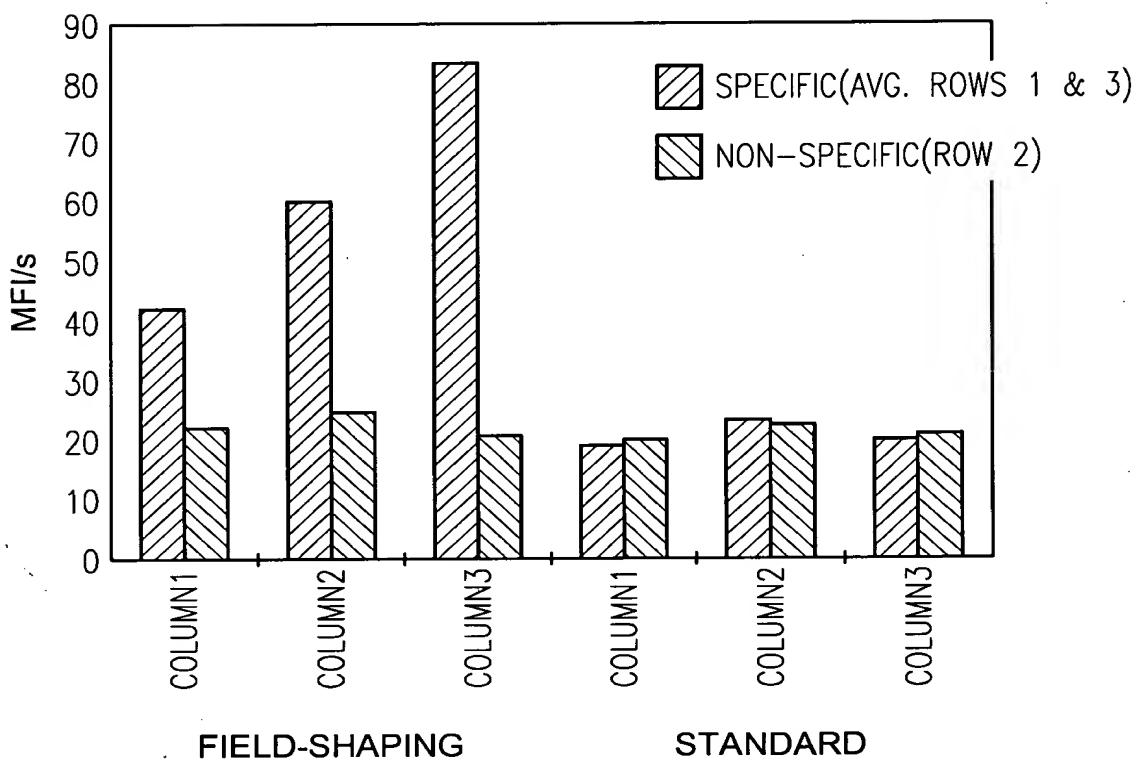


FIG. 21

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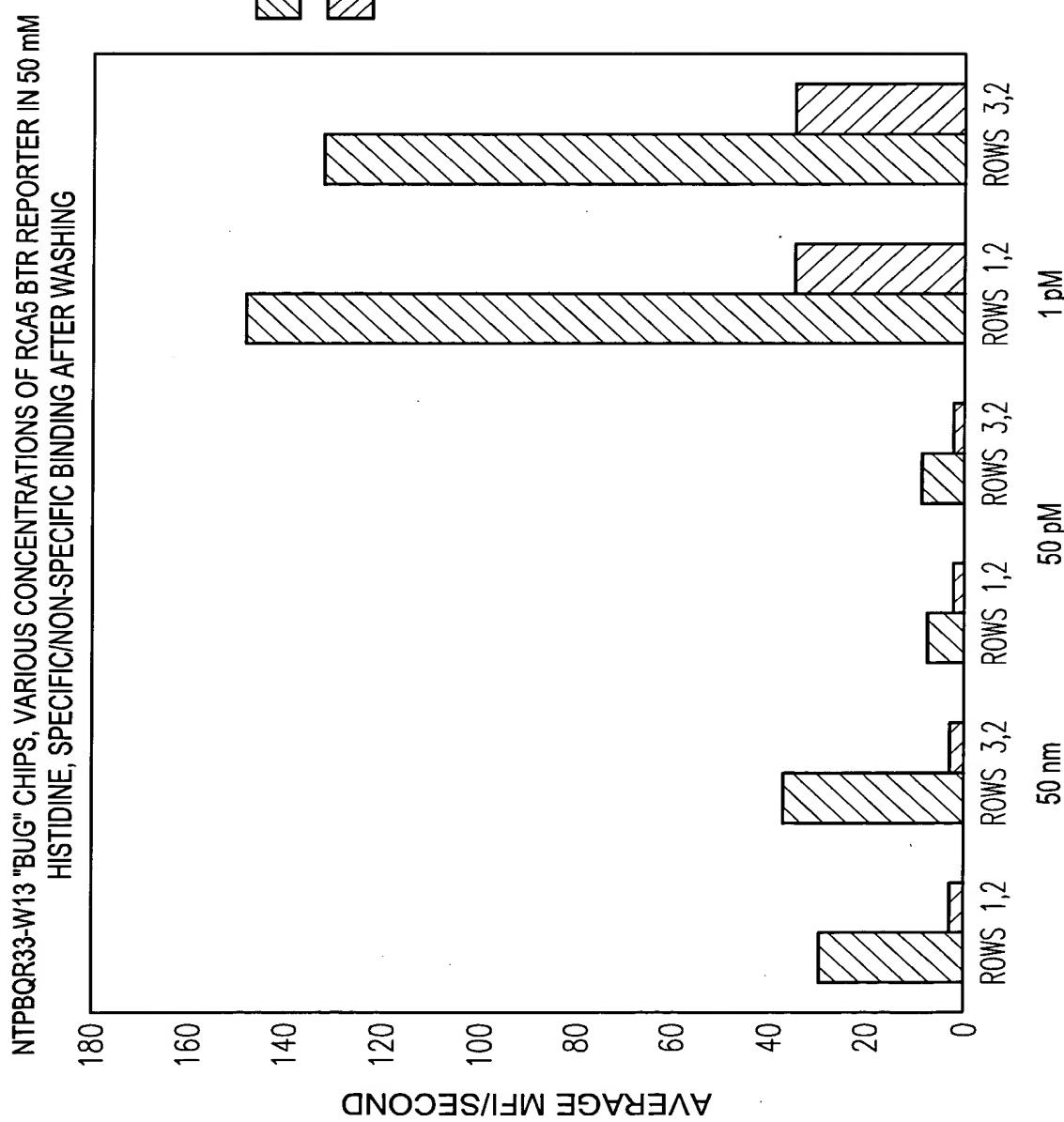


FIG. 22

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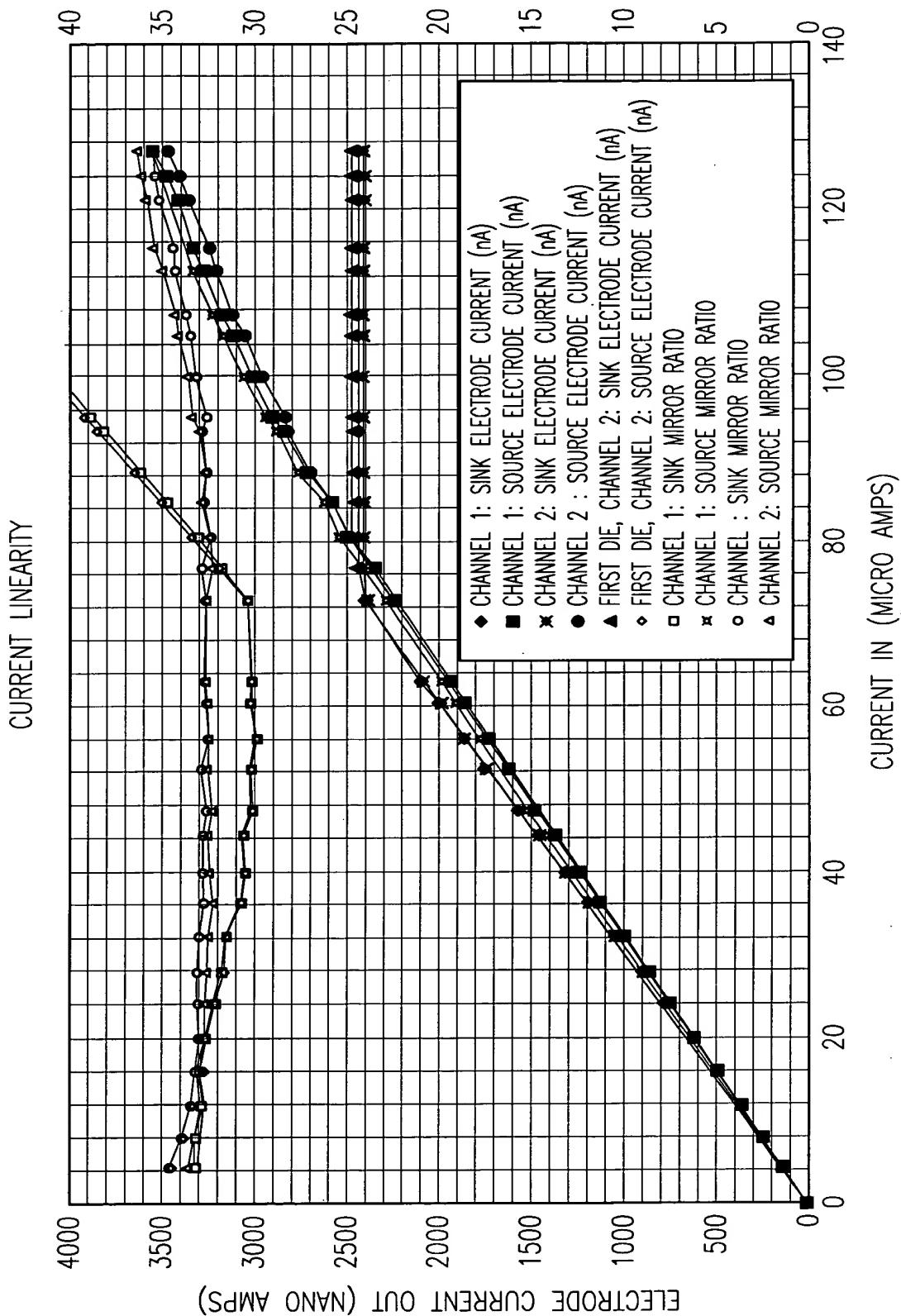


FIG. 23